

Specialist Diploma in
**ADVANCED DIGITAL
MANUFACTURING**



Photo: Festo Didactic

Offered by:

TUM Asia

FESTO

In partnership with:

SKILLS *future* SG

SPECIALIST DIPLOMA IN ADVANCED DIGITAL MANUFACTURING

Post-Diploma Certificate 1

Post-Diploma Certificate 2

ESSENTIALS OF
ADVANCED
MANUFACTURING
SYSTEMS

MANUFACTURING
MANAGEMENT

ADVANCED
MANUFACTURING
PROJECT

OPTIONAL
WORKSHOP*

CYBER
PHYSICAL
SYSTEMS

INDUSTRIAL
INTERNET
OF THINGS

DIGITAL
MANUFACTURING
PROJECT

JANUARY

FEBRUARY

MARCH

APRIL-JUNE

JULY

AUGUST

SEPTEMBER

5 full days
40 hours

5 full days
40 hours

7 full days
60 hours

3 full days
30 hours

5 full days
40 hours

5 full days
40 hours

7 full days
60 hours

*“Engineer Your Smart Factory Blueprint” 3 Day Workshop

Through design thinking, participants will generate actionable problem statements based on their specific target functions. They will also be introduced to the available solution taxonomy and digital media solutions.

Post-Specialist Diploma Project Mentorship 12 Months

Participants are encouraged to implement a project at their respective companies under the mentorship of our pool of experts. The problem statements generated from the workshop serve as a starting point for transformation initiatives. Companies are eligible to mentorship support grant of up to 90%. Terms and conditions apply.

Post-Diploma Certificate 1: Advanced Manufacturing

140 hours



ESSENTIALS OF ADVANCED MANUFACTURING SYSTEMS

This module provides an overview on the essentials of advanced manufacturing systems which involve more effective use of technology, management systems, production techniques and processes.

13 - 17 January 2020 | 5 full days | 40 hours | Course Code: ADM101



MANUFACTURING MANAGEMENT

This module aims to equip modern manufacturing engineers and managers with deep insight on effective organization of manufacturing processes within companies.

17 - 21 February 2020 | 5 full days | 40 hours | Course Code: ADM102



ADVANCED MANUFACTURING PROJECT

This practical module gives an overview of the underlying concept of Industry 4.0 and its core elements enabling optimised productivity and efficiency in the manufacturing processes.

9 - 17 March 2020 | 7 full days | 60 hours | Course Code: ADM103

Post-Diploma Certificate 2: Digital Manufacturing

140 hours



CYBER PHYSICAL SYSTEMS

Participants will understand & apply software development approaches for development of cyber production systems. Model-based approaches will be presented especially in aspects such as modularity, variants and versions.

13 - 17 July 2020 | 5 full days | 40 hours | Course Code: ADM201



INDUSTRIAL INTERNET OF THINGS

This module covers various aspects of IOT which include sensing, actuation, processing, and communication, that lead to development of skills and experiences employed in designing novel Industrial IOT systems.

24 - 28 August 2020 | 5 full days | 40 hours | Course Code: ADM202



DIGITAL MANUFACTURING PROJECT

This practical module gives an overview of the Cyber-Physical (CP) System integrated with Industry 4.0 features i.e. decentralised intelligence, high connectivity, flexibility and modularity.

14 - 23 September 2020 | 7 full days | 60 hours | Course Code: ADM203

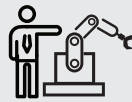
REASONS TO JOIN

LEARN FROM GERMAN EXPERTS



Upgrade your skills and learn from the key drivers of Industry 4.0

HANDS-ON EXPERIENCE WITH EQUIPMENT



State-of-the-art Industry 4.0 training equipment during project modules

POST-TRAINING MENTORSHIPS



Customised guidance to apply new solutions to your organisation

1ST INDUSTRY 4.0 SPECIALIST DIPLOMA



First of its kind being offered in Singapore with more than 60 graduates

QUALITY INSTRUCTIONAL TIME



Focus on one module at a time with our block teaching system

UP TO 90% FUNDING



SkillsFuture funding available for Singaporeans and Permanent Residents (PR)

APPLICATION INFORMATION

WHO SHOULD ATTEND

Professionals in the following or related fields:

- Automation
- Electrical/Electronics
- Mechatronics
- Information Technology
- Infocomm
- Science & Technology

Individuals interested in:

- **Advanced Digital Manufacturing**

ADMISSION REQUIREMENTS

A **Bachelor's degree (or higher)**, OR a **relevant polytechnic diploma with at least 2 years of related working experience**

Applicants who do not meet the entry requirements may be considered based on:

- (i) Evidence of at least 5 years of relevant working experience; OR
- (ii) Supporting evidence of competency readiness

To register for the course or to find out more, please visit www.tum-asia.edu.sg/sdi4
Kindly contact us for the latest course schedule at exd@tum-asia.edu.sg

COURSE FEE AND FUNDING

SPECIALIST
DIPLOMA

SGD 18,000

MODULAR
CERTIFICATE

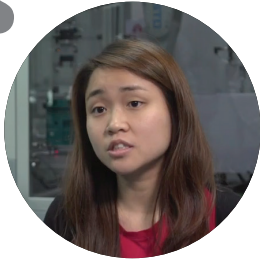
SGD 3,000

- Up to 90% of SkillsFuture funding available
- SkillsFuture Credit can be used to offset course fees
- Fees indicated above are before SkillsFuture course fee funding and 7% GST.



Photo: Festo Didactic

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GAIL CHAN
GRADUATE

Process Engineering
Feinmetall Singapore Ptd Ltd

Through this programme, I was able to learn the basic requirements of Industry 4.0. By mapping and considering our company's current needs, we are able to find the solutions to our problems.

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DANNY KER
VALEDICTORIAN,
GRADUATE

Quality Management
TÜV SÜD PSB Pte Ltd

This Specialist Diploma has helped me to gain throretical and practical experience in the world of Industrial Automation. I am able to understand Industry 4.0 concepts and how I can integrate smart machines to make a smart factory a reality.

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Photo: Festo Didactic



Specialist Diploma students from the second programme intake

For more information or to find out the latest course schedule, please contact:

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